Patent claims

- An aqueous amino resin composition comprising amino resins A, formaldehyde-binding additives
- 5 (auxiliaries) B, which if desired comprise
 hydroxyl-containing polyurethanes B13, if desired,
 acrylic resins C in the form of aqueous
 dispersions, and water, with the proviso that the
- presence of at least one of the components B13 and

 C in the composition is mandatory where the
 component B consists only of at least one organic
 hydroxyl compound which is soluble in water or a
 monohydric alcohol having 1 to 4 carbon atoms and
 is selected from dihydric, trihydric and

 pentahydric alcohols containing up to 6 carbon
- 15 pentahydric alcohols containing up to 6 carbon atoms, pentaerythritol and sorbitol, monosaccharides containing up to 6 carbon atoms, disaccharides containing up to 12 carbon atoms, polysaccharides having an Ostwald viscosity of up to 200 mPa·s at 25°C and a concentration corresponding to 37% refraction, monohydric and polyhydric aromatic alcohols containing only one benzene ring, and monohydric and polyhydric phenols, and of at least one amide which is soluble
- in water where a monohydric alcohol having 1 to 4 carbon atoms and is selected from aliphatic amides containing up to 6 carbon atoms and aromatic amides containing only one benzene ring.
- 30 2. The aqueous amino resin composition as claimed in claim 1, wherein the amino resins ${\bf A}$ are watersoluble melamine resins, urea resins or melamineurea cocondensates which are etherified with ${\bf C}_1$ to ${\bf C}_4$ alcohols.

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- 3. The aqueous amino resin composition as claimed in claim 1, wherein the amino resins A are methanoletherified melamine resins or melamine/urea resins having an amount-of-substance ratio (molar ratio) of melamine to urea to formaldehyde to methanol of 1 mol: (0 to 2 mol):(1.8 to 5.8 mol):(0.8 to 5.5 mol).
- 4. The aqueous amino resin composition as claimed in claim 1, wherein the ratio of the mass of component B to the mass of the amino resin A in the mixture is from 1 to 30:100.
 - 5. The aqueous amino resin composition as claimed in claim 1, wherein the formaldehyde-binding auxiliaries B are selected from mixtures B1 of organic amides B11 having up to 10 carbon atoms and from one to four nitrogen atoms, attached in amidelike or imidelike manner, and polyhydroxyl compounds B12 selected from aliphatic linear and branched compounds B121 having from 2 to 6 hydroxyl groups and 1 to 10 carbon atoms, monosaccharides B122 having up to 6 carbon atoms, and disaccharides B123 having up to 12 carbon atoms, and, if desired, water-soluble or water-dispersible, hydroxyl-containing urethane compounds B13.
 - 6. The aqueous amino resin composition as claimed in claim 1 or 5, wherein urethane compounds B13 are of low molecular mass, having an above-average molar mass M_n of from 150 to 5000 g/mol, and contain hydrophilic groups.
- The aqueous amino resin composition as claimed in claim 1, wherein formaldehyde-binding auxiliaries B used comprise the components B2, which are

obtainable by reacting polyhydroxyl compounds B21 selected from aliphatic linear and branched compounds B121 having from 2 to 6 hydroxyl groups and 1 to 10 carbon atoms, monosaccharides B122 having up to 6 carbon atoms, and disaccharides B123 having up to 12 carbon atoms, and also aliphatic aliphatic polyhydroxy amines B211 having from 2 to 6 hydroxyl groups and 1 to 4 nitrogen atoms, attached in an aminelike manner, per molecule, and containing no free amine-type hydrogen atoms, with monofunctional or polyfunctional aliphatic, cycloaliphatic or aromatic isocvanates B22.

8. The aqueous amino resin composition as claimed in claim 1, wherein the acrylic resins C are aqueous dispersions of an acrylic copolymer in water, the parent monomer mixture containing more than 50% of its mass of acrylic monomers selected from acrylic acid and methacrylic acid, their esters with aliphatic alcohols having 1 to 10 carbon atoms, their esters with aliphatic polyhydroxy compounds having 2 to 10 carbon atoms and at least two hydroxyl groups per molecule, and the nitriles of said acids.

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9. The aqueous amino resin composition as claimed in claim 8, wherein the ratio of the mass of the acrylic copolymer to the mass of the amino resin in the mixture is from 0 to 150:100.

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- 10. The use of the aqueous amino resin composition as claimed in claim 1 for impregnating paper or cardboard for use as finished foils or edgings.
- 35 11. A finished foil or edging comprising cardboard or paper impregnated with the aqueous amino resin composition as claimed in claim 1.

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12. The finished foil or edging as claimed in claim 11, wherein the mass per unit area of the paper or cardboard following impregnation and subsequent drying is greater by a factor of from 1.3 to 2.5 than that of the substrate that is used.